

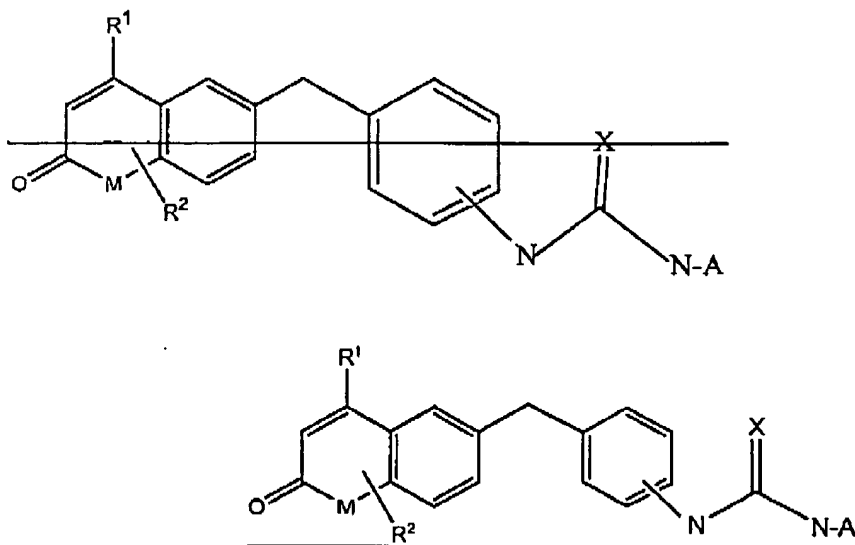
Appl. No. 10/775,405
 Amdt. dated January 24, 2006
 Reply to Office Action of November 11, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended) A compound of the formula:



in which;

a[.] M is NZ-OF-Θ;

b[.] Z is represented by H or C₁-C₄ alkyl;

c[.] R¹ is represented by hydrogen, (C₁-C₂)alkyl, optionally substituted with one or more halogens, or (C₁-C₂)alkoxy, optionally substituted with one or more halogens;

d[.] R² is absent, or may represent up to 2 substituents selected from the group consisting of halogen, nitrile, hydroxy, (C₁-C₄)alkyl, (C₂-C₄)alkenyl, (C₂-

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(C_4) alkynyl, (C_1-C_4) alkoxy, (C_1-C_2) alkyl substituted with one or more halogens,

(C_1-C_2) alkoxy substituted with one or more halogens, SR^4 , and NR^4R^5 ;

e[[.]] X is represented by O or S;

f[[.]] A is represented by hydrogen, (C_1-C_8) alkyl, (C_2-C_8) alkenyl, (C_2-C_8) alkynyl, -

$[CH_2]_m-D-[CH_2]_n-(CH_3)$, $-[CH_2]_mC(O)OR^4$, $-[CH_2]_mC(O)R^4$, $-[CH_2]_m$

$C(O)NR^4R^5$, or $(CH_2)_n-R^3-R^6$;

g[[.]] m is an integer selected from 1 to 8;

h[[.]] n is an integer from 0 to 8;

i[[.]] D is represented by O or S;

j[[.]] R^3 is represented by optionally substituted phenyl, optionally substituted naphthyl,

C_3-C_8 cycloalkyl, optionally substituted heteroaryl, or optionally substituted heterocyclic;

k[[.]] R^4 and R^5 are each independently represented by hydrogen, (C_1-C_4) alkyl, optionally substituted benzyl or optionally substituted phenyl, and;

l[[.]] R^6 is absent, or is represented by a substituent selected from the group consisting of optionally substituted phenyl, optionally substituted naphthyl, optionally substituted phenoxy, C_3-C_8 cycloalkyl, optionally substituted heterocyclic, and optionally substituted heteroaryl[[.]],

or a pharmaceutically acceptable salt thereof.

Claim 2. (original) The compound according to claim 1 in which $NC(X)N-A$ is bonded to the para-position of the benzyl ring.

Claim 3. (original) The compound according to claim 1 in which $NC(X)N-A$ is bonded to the ortho-position of the benzyl ring.

Claim 4. (original) The compound according to claim 2 in which X is represented by O.

Claim 5. (original) The compound according to claim 2 in which X is represented by S.

Claim 6. (original) The compound according to claim 3 in which X is represented by O.

Claim 7. (original) The compound according to claim 3 in which X is represented by S.

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Claim 8. (original) The compound according any one of claims 2, 3, 4, 5, 6 or 7 in which M is represented by NZ, in which Z is represented by hydrogen.

Claim 9. (original) The compound according to claim 8 in which A is represented by $(CH_2)_n R^3 R^6$, in which n is 0, R^6 is absent and R^3 is optionally substituted phenyl.

Claim 10. Cancelled.

Claim 11. (Currently Amended) A method for ~~treating the alleviating~~ a condition selected from the group consisting of alopecia, acne, oily skin, ~~prostate cancer, and~~ hirsutism, and ~~benign prostate hyperplasia,~~ comprising administering an effective amount of a compound according to Claim 1 to a patient in need thereof.

Claims 12 and 13 Cancelled.

Claim 14. (Currently Amended) A pharmaceutical composition comprising a therapeutically effective amount of a compound according to Claim 1 in admixture with one, or more, pharmaceutically acceptable excipients.

Claim 15. (Currently Amended) A topical pharmaceutical formulation comprising a therapeutically effective amount of a compound according to Claim 1 in admixture with one, or more, pharmaceutically acceptable excipients suitable for dermal application.

Claim 16. (Cancelled)

Claim 17. (New) The compound according to claim 8 in which R^1 is CF_3 and R^2 is absent.

Claim 18. (New) A compound according to claim 1 selected from the group consisting of:

1-ethyl-3-[2-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]urea;

1-[2-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]-3-phenylthiourea;

1-(4-methylbenzyl)-3-[2-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea;

1-(4-methoxy-2-methylphenyl)-3-[2-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea;

1-[2-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]-3-phenethylthiourea;

1-(4-methoxyphenyl)-3-[2-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea;

{3-[2-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]ureido}acetic acid ethyl ester;

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1-(4-fluorophenyl)-3-[2-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea;
1-benzo[1,3]dioxol-5-ylmethyl-3-[2-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea;
1-(3,5-dimethoxyphenyl)-3-[2-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]urea;
1-(4-methoxybenzyl)-3-[2-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea;
1-hexyl-3-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]urea;
1-(4-methylbenzyl)-3-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea;
1-[2-(4-chlorophenyl)ethyl]-3-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea;
1-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]-3-phenethylthiourea;
1-Methyl-3-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea;
1-(2,3-dimethoxybenzyl)-3-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea;
1-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]-3-(2-p-tolyloethyl)thiourea;
{3-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]ureido}acetic acid ethyl ester;
1-allyl-3-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea;
1-(2-morpholin-4-ylethyl)-3-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea;
1-naphthalen-1-yl-3-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]urea;
1-benzo[1,3]dioxol-5-ylmethyl-3-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea;
1-(4-methoxybenzyl)-3-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea; and
1-benzyl-3-[4-(2-oxo-4-trifluoromethyl-1,2-dihydroquinolin-6-ylmethyl)phenyl]thiourea.